

Table S1. Ion intensities and the calculated He concentrations of Fig. 4.

2014/3/11		Relative sensitivity factor of the day = 2.57E+16						
Depth (nm)	He	C+	C2+	C3+	ΣC	He/ΣC	He/bin	He conc /cm-3
1.82	0.0042	13.44	10.79	0.66	24.88	1.69E-04	4.34E+12	2.39E+19
3.63	0.0052	12.24	10.41	0.32	22.98	2.26E-04	5.82E+12	3.21E+19
5.45	0.0058	12.72	11.65	0.33	24.70	2.35E-04	6.04E+12	3.33E+19
7.27	0.0060	13.05	11.90	0.31	25.26	2.37E-04	6.11E+12	3.36E+19
9.08	0.0088	13.26	12.02	0.32	25.60	3.44E-04	8.84E+12	4.87E+19
10.90	0.0084	13.04	11.87	0.30	25.21	3.33E-04	8.57E+12	4.72E+19
12.72	0.0070	13.50	12.10	0.33	25.93	2.70E-04	6.95E+12	3.82E+19
14.53	0.0114	13.73	13.10	0.28	27.11	4.20E-04	1.08E+13	5.96E+19
16.35	0.0136	14.00	12.12	0.34	26.46	5.14E-04	1.32E+13	7.28E+19
18.17	0.0170	14.41	12.33	0.37	27.11	6.27E-04	1.61E+13	8.88E+19
19.98	0.0138	14.18	11.85	0.33	26.36	5.24E-04	1.35E+13	7.41E+19
21.80	0.0218	13.74	12.54	0.33	26.61	8.19E-04	2.11E+13	1.16E+20
23.62	0.0220	14.39	12.54	0.39	27.32	8.05E-04	2.07E+13	1.14E+20
25.43	0.0274	14.47	12.59	0.33	27.38	1.00E-03	2.57E+13	1.42E+20
27.25	0.0260	14.21	12.38	0.30	26.88	9.67E-04	2.49E+13	1.37E+20
29.07	0.0306	14.03	11.00	0.36	25.39	1.21E-03	3.10E+13	1.71E+20
30.88	0.0298	14.24	12.36	0.31	26.92	1.11E-03	2.85E+13	1.57E+20
32.70	0.0366	13.89	12.01	0.31	26.21	1.40E-03	3.59E+13	1.98E+20
34.52	0.0388	13.71	11.97	0.31	25.99	1.49E-03	3.84E+13	2.11E+20
36.33	0.0444	14.17	12.18	0.32	26.67	1.66E-03	4.28E+13	2.36E+20
38.15	0.0560	13.94	12.13	0.28	26.35	2.13E-03	5.47E+13	3.01E+20
39.97	0.0556	13.86	12.02	0.35	26.23	2.12E-03	5.45E+13	3.00E+20
41.78	0.0608	13.72	11.94	0.29	25.94	2.34E-03	6.03E+13	3.32E+20
43.60	0.0696	13.81	11.61	0.35	25.77	2.70E-03	6.95E+13	3.82E+20
45.42	0.0760	14.17	11.80	0.37	26.35	2.88E-03	7.42E+13	4.08E+20
47.23	0.0928	13.69	11.76	0.29	25.75	3.60E-03	9.27E+13	5.10E+20
49.05	0.0950	13.86	11.43	0.33	25.62	3.71E-03	9.54E+13	5.25E+20
50.87	0.1142	13.96	11.42	0.34	25.71	4.44E-03	1.14E+14	6.29E+20
52.68	0.1110	14.37	11.80	0.33	26.51	4.19E-03	1.08E+14	5.93E+20
54.50	0.1236	13.80	11.63	0.30	25.72	4.81E-03	1.24E+14	6.81E+20
56.32	0.1326	13.46	11.67	0.30	25.44	5.21E-03	1.34E+14	7.38E+20
58.13	0.1566	13.90	11.52	0.32	25.74	6.08E-03	1.57E+14	8.62E+20
59.95	0.1652	13.62	11.99	0.32	25.92	6.37E-03	1.64E+14	9.02E+20
61.77	0.1822	13.21	11.91	0.27	25.39	7.18E-03	1.85E+14	1.02E+21
63.58	0.2150	13.70	12.26	0.30	26.26	8.19E-03	2.11E+14	1.16E+21
65.40	0.2216	13.58	11.86	0.31	25.74	8.61E-03	2.21E+14	1.22E+21
67.22	0.2386	13.54	11.86	0.31	25.71	9.28E-03	2.39E+14	1.31E+21
69.03	0.2684	13.54	11.62	0.29	25.45	1.05E-02	2.71E+14	1.49E+21
70.85	0.2904	13.86	12.02	0.29	26.17	1.11E-02	2.86E+14	1.57E+21
72.67	0.3030	13.96	11.88	0.34	26.17	1.16E-02	2.98E+14	1.64E+21
74.48	0.3208	13.67	11.80	0.26	25.73	1.25E-02	3.21E+14	1.77E+21
76.30	0.3310	13.96	11.84	0.28	26.09	1.27E-02	3.26E+14	1.80E+21
78.12	0.3930	14.23	11.25	0.39	25.86	1.52E-02	3.91E+14	2.15E+21
79.93	0.3958	13.99	11.29	0.36	25.64	1.54E-02	3.97E+14	2.19E+21
81.75	0.4118	13.90	11.76	0.33	25.99	1.58E-02	4.08E+14	2.24E+21
83.57	0.4022	13.63	11.74	0.28	25.65	1.57E-02	4.03E+14	2.22E+21
85.38	0.4160	13.36	11.50	0.30	25.16	1.65E-02	4.25E+14	2.34E+21
87.20	0.4184	13.70	11.85	0.31	25.86	1.62E-02	4.16E+14	2.29E+21

89.02	0.3988	13.35	11.82	0.31	25.47	1.57E-02	4.03E+14	2.22E+21
90.83	0.3780	13.41	12.51	0.26	26.18	1.44E-02	3.71E+14	2.04E+21
92.65	0.3684	13.36	11.64	0.28	25.27	1.46E-02	3.75E+14	2.06E+21
94.47	0.3568	13.70	11.27	0.35	25.32	1.41E-02	3.63E+14	2.00E+21
96.28	0.3204	13.49	11.41	0.30	25.20	1.27E-02	3.27E+14	1.80E+21
98.10	0.2822	13.63	12.36	0.25	26.24	1.08E-02	2.77E+14	1.52E+21
99.92	0.2578	13.55	11.56	0.29	25.40	1.02E-02	2.61E+14	1.44E+21
101.73	0.2194	13.67	11.38	0.28	25.32	8.67E-03	2.23E+14	1.23E+21
103.55	0.1816	13.46	11.10	0.31	24.87	7.30E-03	1.88E+14	1.03E+21
105.37	0.1488	13.35	11.73	0.28	25.37	5.87E-03	1.51E+14	8.31E+20
107.18	0.1166	12.99	11.29	0.27	24.55	4.75E-03	1.22E+14	6.73E+20
109.00	0.1044	12.65	10.76	0.33	23.74	4.40E-03	1.13E+14	6.23E+20
110.82	0.0752	12.80	12.21	0.27	25.29	2.97E-03	7.65E+13	4.21E+20
112.63	0.0630	12.42	11.27	0.26	23.95	2.63E-03	6.77E+13	3.72E+20
114.45	0.0512	12.55	11.11	0.31	23.97	2.14E-03	5.50E+13	3.02E+20
116.27	0.0340	12.05	11.52	0.25	23.82	1.43E-03	3.67E+13	2.02E+20
118.08	0.0268	12.14	12.07	0.24	24.45	1.10E-03	2.82E+13	1.55E+20
119.90	0.0188	12.24	11.24	0.27	23.75	7.92E-04	2.04E+13	1.12E+20
121.72	0.0178	12.09	11.51	0.23	23.82	7.47E-04	1.92E+13	1.06E+20
123.53	0.0142	12.28	10.85	0.28	23.41	6.06E-04	1.56E+13	8.59E+19
125.35	0.0098	12.39	11.07	0.26	23.72	4.13E-04	1.06E+13	5.85E+19
127.17	0.0086	12.27	10.69	0.27	23.23	3.70E-04	9.52E+12	5.24E+19
128.98	0.0070	12.27	10.55	0.26	23.08	3.03E-04	7.80E+12	4.29E+19
130.80	0.0040	12.17	10.31	0.29	22.77	1.76E-04	4.52E+12	2.49E+19
132.62	0.0046	12.03	10.76	0.28	23.07	1.99E-04	5.13E+12	2.82E+19
134.43	0.0022	11.78	10.47	0.28	22.53	9.77E-05	2.51E+12	1.38E+19
136.25	0.0030	11.70	9.74	0.30	21.73	1.38E-04	3.55E+12	1.95E+19
138.07	0.0034	11.03	10.14	0.28	21.44	1.59E-04	4.08E+12	2.25E+19
139.88	0.0016	11.27	9.97	0.28	21.53	7.43E-05	1.91E+12	1.05E+19
141.70	0.0016	11.27	10.64	0.22	22.13	7.23E-05	1.86E+12	1.02E+19
143.52	0.0016	11.51	10.15	0.28	21.94	7.29E-05	1.88E+12	1.03E+19
145.33	0.0014	11.25	10.28	0.26	21.79	6.43E-05	1.65E+12	9.10E+18
147.15	0.0006	11.22	10.26	0.22	21.69	2.77E-05	7.12E+11	3.92E+18
148.97	0.0020	11.24	10.28	0.22	21.74	9.20E-05	2.37E+12	1.30E+19
150.78	0.0012	11.01	10.41	0.22	21.64	5.55E-05	1.43E+12	7.85E+18
152.60	0.0020	11.00	10.01	0.25	21.26	9.41E-05	2.42E+12	1.33E+19
154.42	0.0008	10.60	10.82	0.21	21.63	3.70E-05	9.52E+11	5.24E+18
156.23	0.0012	11.15	9.84	0.28	21.28	5.64E-05	1.45E+12	7.99E+18
158.05	0.0008	10.40	10.01	0.21	20.61	3.88E-05	9.98E+11	5.50E+18
159.87	0.0008	10.80	9.99	0.27	21.06	3.80E-05	9.77E+11	5.38E+18
161.68	0.0008	10.91	9.63	0.28	20.83	3.84E-05	9.88E+11	5.44E+18
163.50	0.0022	10.53	9.63	0.23	20.40	1.08E-04	2.77E+12	1.53E+19
165.32	0.0012	10.53	9.95	0.26	20.74	5.79E-05	1.49E+12	8.19E+18
167.13	0.0004	10.85	9.66	0.29	20.81	1.92E-05	4.95E+11	2.72E+18
168.95	0.0012	10.34	10.62	0.18	21.14	5.68E-05	1.46E+12	8.04E+18
170.77	0.0014	10.64	9.62	0.24	20.50	6.83E-05	1.76E+12	9.67E+18
172.58	0.0004	11.00	9.74	0.23	20.97	1.91E-05	4.91E+11	2.70E+18
174.40	0.0008	11.13	9.26	0.28	20.67	3.87E-05	9.96E+11	5.48E+18
176.22	0.0014	10.85	9.26	0.22	20.34	6.88E-05	1.77E+12	9.75E+18
178.03	0.0012	11.15	9.88	0.23	21.26	5.64E-05	1.45E+12	7.99E+18
179.85	0.0016	11.04	9.40	0.26	20.69	7.73E-05	1.99E+12	1.10E+19
181.67	0.0006	11.20	9.21	0.26	20.67	2.90E-05	7.47E+11	4.11E+18

183.48	0.0006	10.84	9.28	0.23	20.35	2.95E-05	7.59E+11	4.18E+18
185.30	0.0006	10.65	9.82	0.20	20.67	2.90E-05	7.47E+11	4.11E+18
187.12	0.0008	10.72	10.02	0.20	20.94	3.82E-05	9.83E+11	5.41E+18
188.93	0.0014	10.71	9.93	0.22	20.85	6.71E-05	1.73E+12	9.51E+18
190.75	0.0010	10.86	8.89	0.28	20.03	4.99E-05	1.28E+12	7.07E+18
192.57	0.0012	10.90	9.69	0.22	20.82	5.76E-05	1.48E+12	8.16E+18
194.38	0.0006	10.92	9.46	0.25	20.63	2.91E-05	7.48E+11	4.12E+18
196.20	0.0002	10.08	10.00	0.18	20.26	9.87E-06	2.54E+11	1.40E+18
198.02	0.0004	10.52	9.96	0.21	20.69	1.93E-05	4.97E+11	2.74E+18
199.83	0.0006	10.43	10.03	0.26	20.72	2.90E-05	7.45E+11	4.10E+18
201.65	0.0012	10.45	9.59	0.23	20.27	5.92E-05	1.52E+12	8.38E+18
203.47	0.0010	10.43	9.72	0.25	20.39	4.90E-05	1.26E+12	6.94E+18
205.28	0.0012	10.33	10.15	0.23	20.71	5.79E-05	1.49E+12	8.21E+18
207.10	0.0014	10.18	9.58	0.26	20.01	7.00E-05	1.80E+12	9.91E+18
208.92	0.0008	10.30	9.77	0.26	20.33	3.93E-05	1.01E+12	5.57E+18
210.73	0.0012	10.00	10.05	0.25	20.29	5.91E-05	1.52E+12	8.37E+18
212.55	0.0012	9.91	10.01	0.21	20.13	5.96E-05	1.53E+12	8.44E+18
214.37	0.0002	10.06	9.70	0.23	20.00	1.00E-05	2.57E+11	1.42E+18
216.18	0.0006	9.99	9.92	0.22	20.14	2.98E-05	7.67E+11	4.22E+18
218.00	0.0004	10.40	9.62	0.29	20.31	1.97E-05	5.07E+11	2.79E+18

2014/3/12

Relative sensitivity factor of the day = 5.74E+16

Depth (nm)	He	C+	C2+	C3+	ΣC	He/ΣC	He/bin	He conc /cm-3
1.77	0.0030	18.37	16.21	0.72	35.29	8.50E-05	4.88E+12	2.76E+19
3.53	0.0026	18.03	14.63	0.43	33.08	7.86E-05	4.51E+12	2.55E+19
5.30	0.0042	18.29	14.03	0.33	32.65	1.29E-04	7.39E+12	4.18E+19
7.07	0.0046	20.26	14.77	0.32	35.35	1.30E-04	7.47E+12	4.23E+19
8.83	0.0050	20.83	14.94	0.31	36.08	1.39E-04	7.96E+12	4.50E+19
10.60	0.0054	20.68	15.25	0.32	36.25	1.49E-04	8.55E+12	4.84E+19
12.37	0.0056	19.86	15.17	0.34	35.37	1.58E-04	9.09E+12	5.15E+19
14.13	0.0048	20.02	15.50	0.36	35.88	1.34E-04	7.68E+12	4.35E+19
15.90	0.0084	21.19	14.86	0.29	36.34	2.31E-04	1.33E+13	7.51E+19
17.67	0.0092	20.64	14.65	0.27	35.56	2.59E-04	1.49E+13	8.41E+19
19.43	0.0086	21.42	15.26	0.32	37.00	2.32E-04	1.33E+13	7.55E+19
21.20	0.0084	21.06	14.94	0.30	36.30	2.31E-04	1.33E+13	7.52E+19
22.97	0.0104	20.93	15.66	0.33	36.92	2.82E-04	1.62E+13	9.15E+19
24.73	0.0160	20.18	15.55	0.33	36.06	4.44E-04	2.55E+13	1.44E+20
26.50	0.0160	21.13	15.10	0.28	36.51	4.38E-04	2.52E+13	1.42E+20
28.27	0.0128	20.45	15.37	0.31	36.13	3.54E-04	2.03E+13	1.15E+20
30.03	0.0162	20.35	15.42	0.30	36.08	4.49E-04	2.58E+13	1.46E+20
31.80	0.0178	21.05	15.58	0.29	36.92	4.82E-04	2.77E+13	1.57E+20
33.57	0.0222	20.64	15.11	0.29	36.04	6.16E-04	3.54E+13	2.00E+20
35.33	0.0216	20.59	14.94	0.24	35.78	6.04E-04	3.47E+13	1.96E+20
37.10	0.0278	20.83	15.00	0.26	36.09	7.70E-04	4.42E+13	2.50E+20
38.87	0.0312	20.60	15.13	0.25	35.97	8.67E-04	4.98E+13	2.82E+20
40.63	0.0310	20.30	15.35	0.29	35.95	8.62E-04	4.95E+13	2.80E+20
42.40	0.0318	20.13	14.69	0.24	35.07	9.07E-04	5.21E+13	2.95E+20
44.17	0.0332	19.69	14.08	0.25	34.03	9.76E-04	5.60E+13	3.17E+20
45.93	0.0454	19.07	14.30	0.28	33.65	1.35E-03	7.74E+13	4.38E+20
47.70	0.0550	19.98	14.40	0.28	34.66	1.59E-03	9.11E+13	5.16E+20
49.47	0.0562	20.80	14.91	0.31	36.02	1.56E-03	8.96E+13	5.07E+20
51.23	0.0602	20.36	14.28	0.27	34.91	1.72E-03	9.90E+13	5.60E+20
53.00	0.0700	20.53	13.96	0.26	34.75	2.01E-03	1.16E+14	6.55E+20
54.77	0.0762	20.27	14.72	0.27	35.25	2.16E-03	1.24E+14	7.02E+20
56.53	0.0778	21.47	14.39	0.22	36.09	2.16E-03	1.24E+14	7.01E+20
58.30	0.0834	19.68	14.35	0.27	34.30	2.43E-03	1.40E+14	7.90E+20
60.07	0.0924	21.56	14.89	0.26	36.70	2.52E-03	1.45E+14	8.18E+20
61.83	0.0978	21.82	14.56	0.20	36.58	2.67E-03	1.53E+14	8.69E+20
63.60	0.1158	20.77	14.81	0.25	35.83	3.23E-03	1.86E+14	1.05E+21
65.37	0.1202	20.93	14.69	0.24	35.85	3.35E-03	1.92E+14	1.09E+21
67.13	0.1398	20.80	14.81	0.27	35.87	3.90E-03	2.24E+14	1.27E+21
68.90	0.1602	19.94	15.47	0.33	35.74	4.48E-03	2.57E+14	1.46E+21
70.67	0.1464	21.89	13.90	0.20	35.99	4.07E-03	2.34E+14	1.32E+21
72.43	0.1854	21.25	15.20	0.26	36.70	5.05E-03	2.90E+14	1.64E+21
74.20	0.1840	20.97	14.37	0.23	35.57	5.17E-03	2.97E+14	1.68E+21
75.97	0.2090	20.70	14.75	0.27	35.72	5.85E-03	3.36E+14	1.90E+21
77.73	0.2060	19.72	14.05	0.28	34.05	6.05E-03	3.47E+14	1.97E+21
79.50	0.2204	20.06	14.63	0.25	34.94	6.31E-03	3.62E+14	2.05E+21
81.27	0.2198	21.29	14.88	0.25	36.41	6.04E-03	3.47E+14	1.96E+21
83.03	0.2508	20.52	14.66	0.25	35.43	7.08E-03	4.06E+14	2.30E+21
84.80	0.2454	21.15	14.69	0.26	36.10	6.80E-03	3.90E+14	2.21E+21

86.57	0.2418	19.49	14.51	0.26	34.26	7.06E-03	4.05E+14	2.29E+21
88.33	0.2522	19.09	14.48	0.26	33.83	7.45E-03	4.28E+14	2.42E+21
90.10	0.2410	19.67	14.72	0.28	34.66	6.95E-03	3.99E+14	2.26E+21
91.87	0.2234	20.43	13.55	0.22	34.20	6.53E-03	3.75E+14	2.12E+21
93.63	0.2318	19.64	14.28	0.26	34.19	6.78E-03	3.89E+14	2.20E+21
95.40	0.2136	20.28	14.18	0.25	34.71	6.15E-03	3.53E+14	2.00E+21
97.17	0.1930	19.55	14.27	0.27	34.09	5.66E-03	3.25E+14	1.84E+21
98.93	0.1656	20.85	13.64	0.22	34.71	4.77E-03	2.74E+14	1.55E+21
100.70	0.1450	19.57	13.32	0.25	33.14	4.38E-03	2.51E+14	1.42E+21
102.47	0.1336	19.56	13.94	0.29	33.79	3.95E-03	2.27E+14	1.28E+21
104.23	0.1104	19.93	13.39	0.25	33.58	3.29E-03	1.89E+14	1.07E+21
106.00	0.0888	20.60	13.81	0.25	34.66	2.56E-03	1.47E+14	8.32E+20
107.77	0.0794	18.88	13.40	0.23	32.52	2.44E-03	1.40E+14	7.93E+20
109.53	0.0644	18.79	13.63	0.28	32.70	1.97E-03	1.13E+14	6.40E+20
111.30	0.0524	19.39	14.53	0.24	34.16	1.53E-03	8.81E+13	4.98E+20
113.07	0.0378	19.75	13.53	0.21	33.49	1.13E-03	6.48E+13	3.67E+20
114.83	0.0336	18.93	13.23	0.25	32.41	1.04E-03	5.95E+13	3.37E+20
116.60	0.0230	17.95	13.39	0.23	31.57	7.28E-04	4.18E+13	2.37E+20
118.37	0.0190	19.34	13.46	0.20	33.00	5.76E-04	3.30E+13	1.87E+20
120.13	0.0138	18.92	14.02	0.24	33.19	4.16E-04	2.39E+13	1.35E+20
121.90	0.0100	20.07	13.39	0.20	33.66	2.97E-04	1.71E+13	9.65E+19
123.67	0.0102	18.09	13.50	0.27	31.86	3.20E-04	1.84E+13	1.04E+20
125.43	0.0074	16.94	13.12	0.28	30.34	2.44E-04	1.40E+13	7.93E+19
127.20	0.0058	17.81	12.55	0.20	30.56	1.90E-04	1.09E+13	6.17E+19
128.97	0.0046	17.15	12.38	0.23	29.76	1.55E-04	8.88E+12	5.02E+19
130.73	0.0030	18.56	13.01	0.21	31.78	9.44E-05	5.42E+12	3.07E+19
132.50	0.0016	18.26	12.49	0.22	30.96	5.17E-05	2.97E+12	1.68E+19
134.27	0.0022	18.83	12.64	0.20	31.67	6.95E-05	3.99E+12	2.26E+19
136.03	0.0016	17.92	11.92	0.18	30.03	5.33E-05	3.06E+12	1.73E+19
137.80	0.0010	17.43	12.42	0.23	30.09	3.32E-05	1.91E+12	1.08E+19
139.57	0.0008	17.17	12.28	0.21	29.66	2.70E-05	1.55E+12	8.76E+18
141.33	0.0012	18.33	12.60	0.20	31.12	3.86E-05	2.21E+12	1.25E+19
143.10	0.0012	18.17	11.79	0.16	30.12	3.98E-05	2.29E+12	1.29E+19
144.87	0.0008	17.46	11.78	0.20	29.45	2.72E-05	1.56E+12	8.83E+18
146.63	0.0006	18.14	11.67	0.16	29.97	2.00E-05	1.15E+12	6.50E+18
148.40	0.0010	16.04	11.34	0.20	27.58	3.63E-05	2.08E+12	1.18E+19
150.17	0.0008	16.24	11.82	0.23	28.28	2.83E-05	1.62E+12	9.19E+18
151.93	0.0006	16.94	12.03	0.22	29.19	2.06E-05	1.18E+12	6.68E+18
153.70	0.0010	18.06	12.25	0.19	30.50	3.28E-05	1.88E+12	1.07E+19
155.47	0.0004	16.69	12.24	0.22	29.14	1.37E-05	7.88E+11	4.46E+18
157.23	0.0008	16.69	12.69	0.21	29.60	2.70E-05	1.55E+12	8.78E+18
159.00	0.0006	15.84	12.10	0.23	28.17	2.13E-05	1.22E+12	6.92E+18
160.77	0.0014	17.51	11.84	0.17	29.52	4.74E-05	2.72E+12	1.54E+19
162.53	0.0004	15.70	12.30	0.27	28.28	1.41E-05	8.12E+11	4.60E+18
164.30	0.0014	17.09	12.33	0.21	29.62	4.73E-05	2.71E+12	1.54E+19
166.07	0.0002	16.38	12.10	0.23	28.71	6.97E-06	4.00E+11	2.26E+18
167.83	0.0002	16.01	12.26	0.25	28.52	7.01E-06	4.03E+11	2.28E+18
169.60	0.0008	16.68	11.87	0.19	28.75	2.78E-05	1.60E+12	9.04E+18
171.37	0.0008	15.70	11.73	0.21	27.63	2.90E-05	1.66E+12	9.41E+18
173.13	0.0008	15.95	11.31	0.19	27.45	2.91E-05	1.67E+12	9.47E+18
174.90	0.0004	16.81	11.65	0.20	28.66	1.40E-05	8.01E+11	4.53E+18
176.67	0.0006	16.28	11.43	0.21	27.92	2.15E-05	1.23E+12	6.98E+18

178.43	0.0000	17.90	11.77	0.18	29.85	0.00E+00	0.00E+00	0.00E+00
180.20	0.0004	16.60	11.75	0.24	28.59	1.40E-05	8.03E+11	4.55E+18
181.97	0.0004	15.97	11.68	0.25	27.90	1.43E-05	8.23E+11	4.66E+18
183.73	0.0000	17.87	11.23	0.20	29.30	0.00E+00	0.00E+00	0.00E+00
185.50	0.0002	16.93	11.80	0.24	28.97	6.90E-06	3.96E+11	2.24E+18
187.27	0.0008	17.06	11.97	0.23	29.26	2.73E-05	1.57E+12	8.88E+18
189.03	0.0012	17.09	11.46	0.21	28.76	4.17E-05	2.40E+12	1.36E+19
190.80	0.0002	16.43	11.27	0.20	27.91	7.17E-06	4.11E+11	2.33E+18
192.57	0.0004	17.04	11.49	0.21	28.74	1.39E-05	7.99E+11	4.52E+18
194.33	0.0008	16.58	11.72	0.25	28.55	2.80E-05	1.61E+12	9.11E+18
196.10	0.0002	17.49	11.68	0.20	29.38	6.81E-06	3.91E+11	2.21E+18
197.87	0.0002	16.91	11.10	0.19	28.20	7.09E-06	4.07E+11	2.30E+18
199.63	0.0006	16.05	11.27	0.23	27.55	2.18E-05	1.25E+12	7.08E+18
201.40	0.0002	17.61	11.71	0.17	29.50	6.78E-06	3.89E+11	2.20E+18
203.17	0.0006	16.34	12.13	0.26	28.73	2.09E-05	1.20E+12	6.79E+18
204.93	0.0006	16.61	12.28	0.25	29.14	2.06E-05	1.18E+12	6.69E+18
206.70	0.0008	17.84	11.84	0.19	29.87	2.68E-05	1.54E+12	8.70E+18
208.47	0.0000	16.43	12.33	0.27	29.03	0.00E+00	0.00E+00	0.00E+00
210.23	0.0008	18.12	12.08	0.19	30.39	2.63E-05	1.51E+12	8.56E+18
212.00	0.0004	17.71	12.22	0.19	30.12	1.33E-05	7.62E+11	4.32E+18

2014/3/14

Relative sensitivity factor of the day = 3.35E+16

Depth (nm)	He	C+	C2+	C3+	ΣC	He/ΣC	He/bin	He conc /cm-3
1.44	0.0040	16.35	13.10	0.88	30.34	1.32E-04	4.42E+12	3.08E+19
2.87	0.0030	16.66	10.02	0.36	27.04	1.11E-04	3.72E+12	2.59E+19
4.31	0.0040	16.50	11.06	0.42	27.99	1.43E-04	4.79E+12	3.34E+19
5.74	0.0050	16.63	11.36	0.44	28.44	1.76E-04	5.90E+12	4.11E+19
7.18	0.0058	16.56	11.75	0.41	28.73	2.02E-04	6.77E+12	4.72E+19
8.61	0.0036	16.82	12.07	0.41	29.29	1.23E-04	4.12E+12	2.87E+19
10.05	0.0060	17.79	11.88	0.41	30.08	1.99E-04	6.69E+12	4.66E+19
11.49	0.0042	17.91	12.06	0.35	30.32	1.39E-04	4.65E+12	3.24E+19
12.92	0.0082	17.39	12.62	0.39	30.41	2.70E-04	9.05E+12	6.30E+19
14.36	0.0076	17.79	12.48	0.38	30.65	2.48E-04	8.32E+12	5.79E+19
15.79	0.0086	18.95	12.35	0.34	31.64	2.72E-04	9.12E+12	6.35E+19
17.23	0.0092	17.80	12.39	0.41	30.60	3.01E-04	1.01E+13	7.03E+19
18.66	0.0082	18.39	12.38	0.33	31.10	2.64E-04	8.85E+12	6.16E+19
20.10	0.0108	18.12	12.50	0.36	30.98	3.49E-04	1.17E+13	8.15E+19
21.54	0.0126	18.20	12.56	0.37	31.14	4.05E-04	1.36E+13	9.45E+19
22.97	0.0122	18.21	12.37	0.38	30.96	3.94E-04	1.32E+13	9.21E+19
24.41	0.0138	19.36	12.67	0.31	32.35	4.27E-04	1.43E+13	9.97E+19
25.84	0.0120	18.73	12.59	0.35	31.67	3.79E-04	1.27E+13	8.85E+19
27.28	0.0164	17.64	12.47	0.41	30.53	5.37E-04	1.80E+13	1.26E+20
28.71	0.0176	18.35	12.31	0.34	30.99	5.68E-04	1.90E+13	1.33E+20
30.15	0.0178	18.34	12.55	0.37	31.26	5.69E-04	1.91E+13	1.33E+20
31.59	0.0190	17.93	12.59	0.39	30.91	6.15E-04	2.06E+13	1.44E+20
33.02	0.0224	17.88	12.49	0.39	30.76	7.28E-04	2.44E+13	1.70E+20
34.46	0.0226	17.63	12.73	0.37	30.73	7.36E-04	2.47E+13	1.72E+20
35.89	0.0286	17.89	13.10	0.40	31.39	9.11E-04	3.06E+13	2.13E+20
37.33	0.0282	17.91	12.57	0.38	30.87	9.14E-04	3.06E+13	2.13E+20
38.76	0.0286	18.80	12.27	0.37	31.43	9.10E-04	3.05E+13	2.13E+20
40.20	0.0392	18.41	12.35	0.33	31.09	1.26E-03	4.23E+13	2.95E+20
41.64	0.0376	18.25	12.26	0.37	30.88	1.22E-03	4.08E+13	2.84E+20
43.07	0.0468	17.78	12.81	0.44	31.03	1.51E-03	5.06E+13	3.52E+20
44.51	0.0436	18.66	12.12	0.29	31.07	1.40E-03	4.71E+13	3.28E+20
45.94	0.0508	18.25	12.65	0.37	31.26	1.63E-03	5.45E+13	3.80E+20
47.38	0.0530	17.94	12.39	0.39	30.72	1.73E-03	5.79E+13	4.03E+20
48.81	0.0586	18.61	12.16	0.32	31.08	1.89E-03	6.32E+13	4.41E+20
50.25	0.0582	18.13	12.33	0.38	30.84	1.89E-03	6.33E+13	4.41E+20
51.69	0.0562	18.56	11.63	0.29	30.48	1.84E-03	6.19E+13	4.31E+20
53.12	0.0760	18.41	11.95	0.29	30.65	2.48E-03	8.32E+13	5.79E+20
54.56	0.0732	18.74	12.04	0.29	31.07	2.36E-03	7.90E+13	5.50E+20
55.99	0.0720	18.58	11.60	0.29	30.47	2.36E-03	7.93E+13	5.52E+20
57.43	0.0938	18.10	12.21	0.38	30.68	3.06E-03	1.03E+14	7.14E+20
58.86	0.0850	18.38	12.12	0.35	30.85	2.76E-03	9.24E+13	6.44E+20
60.30	0.0978	18.39	12.31	0.34	31.04	3.15E-03	1.06E+14	7.36E+20
61.74	0.1140	18.79	12.30	0.34	31.43	3.63E-03	1.22E+14	8.48E+20
63.17	0.1226	18.17	12.12	0.33	30.62	4.00E-03	1.34E+14	9.35E+20
64.61	0.1256	18.37	12.32	0.34	31.03	4.05E-03	1.36E+14	9.46E+20
66.04	0.1476	17.14	12.98	0.39	30.51	4.84E-03	1.62E+14	1.13E+21
67.48	0.1562	17.31	12.63	0.36	30.30	5.15E-03	1.73E+14	1.20E+21
68.91	0.1522	18.20	12.22	0.32	30.74	4.95E-03	1.66E+14	1.16E+21

70.35	0.1676	16.81	12.43	0.35	29.59	5.66E-03	1.90E+14	1.32E+21
71.79	0.1558	18.47	12.03	0.32	30.82	5.05E-03	1.70E+14	1.18E+21
73.22	0.1854	17.80	12.40	0.33	30.53	6.07E-03	2.04E+14	1.42E+21
74.66	0.2082	17.67	12.37	0.34	30.38	6.85E-03	2.30E+14	1.60E+21
76.09	0.2184	17.04	12.13	0.39	29.55	7.39E-03	2.48E+14	1.73E+21
77.53	0.2228	17.10	12.39	0.36	29.85	7.46E-03	2.50E+14	1.74E+21
78.96	0.2252	17.90	12.41	0.33	30.64	7.35E-03	2.47E+14	1.72E+21
80.40	0.2182	18.04	12.22	0.30	30.56	7.14E-03	2.40E+14	1.67E+21
81.84	0.2580	17.52	12.59	0.35	30.47	8.47E-03	2.84E+14	1.98E+21
83.27	0.2582	17.04	12.57	0.34	29.95	8.62E-03	2.89E+14	2.01E+21
84.71	0.2724	17.76	12.74	0.37	30.87	8.83E-03	2.96E+14	2.06E+21
86.14	0.2634	18.21	12.16	0.29	30.66	8.59E-03	2.88E+14	2.01E+21
87.58	0.2744	17.36	12.44	0.36	30.16	9.10E-03	3.05E+14	2.13E+21
89.01	0.2842	17.85	12.68	0.39	30.92	9.19E-03	3.08E+14	2.15E+21
90.45	0.2674	17.92	12.35	0.33	30.60	8.74E-03	2.93E+14	2.04E+21
91.89	0.2820	18.53	12.54	0.34	31.41	8.98E-03	3.01E+14	2.10E+21
93.32	0.2558	18.35	12.13	0.27	30.75	8.32E-03	2.79E+14	1.94E+21
94.76	0.2772	17.08	12.37	0.37	29.83	9.29E-03	3.12E+14	2.17E+21
96.19	0.2920	18.06	12.84	0.39	31.30	9.33E-03	3.13E+14	2.18E+21
97.63	0.2544	18.78	12.31	0.28	31.37	8.11E-03	2.72E+14	1.90E+21
99.06	0.2472	18.31	12.24	0.32	30.86	8.01E-03	2.69E+14	1.87E+21
100.50	0.2292	17.40	12.43	0.40	30.23	7.58E-03	2.54E+14	1.77E+21
101.94	0.2064	17.56	12.09	0.36	30.01	6.88E-03	2.31E+14	1.61E+21
103.37	0.2038	18.51	11.96	0.32	30.79	6.62E-03	2.22E+14	1.55E+21
104.81	0.1630	18.89	11.21	0.24	30.35	5.37E-03	1.80E+14	1.26E+21
106.24	0.1650	17.57	11.78	0.36	29.71	5.55E-03	1.86E+14	1.30E+21
107.68	0.1494	17.75	12.11	0.34	30.20	4.95E-03	1.66E+14	1.16E+21
109.11	0.1202	17.87	11.86	0.35	30.07	4.00E-03	1.34E+14	9.34E+20
110.55	0.0982	18.91	11.36	0.27	30.54	3.22E-03	1.08E+14	7.51E+20
111.99	0.1022	17.90	11.59	0.34	29.83	3.43E-03	1.15E+14	8.01E+20
113.42	0.0856	16.99	11.52	0.34	28.85	2.97E-03	9.95E+13	6.93E+20
114.86	0.0682	18.08	11.26	0.26	29.59	2.30E-03	7.73E+13	5.39E+20
116.29	0.0610	17.63	11.68	0.35	29.66	2.06E-03	6.90E+13	4.81E+20
117.73	0.0472	18.06	11.33	0.28	29.67	1.59E-03	5.34E+13	3.72E+20
119.16	0.0376	17.31	11.82	0.34	29.47	1.28E-03	4.28E+13	2.98E+20
120.60	0.0334	17.50	11.62	0.32	29.44	1.13E-03	3.81E+13	2.65E+20
122.04	0.0286	16.97	11.52	0.30	28.79	9.93E-04	3.33E+13	2.32E+20
123.47	0.0198	17.59	11.43	0.30	29.31	6.75E-04	2.27E+13	1.58E+20
124.91	0.0182	16.65	11.51	0.31	28.47	6.39E-04	2.14E+13	1.49E+20
126.34	0.0098	16.78	11.24	0.29	28.31	3.46E-04	1.16E+13	8.09E+19
127.78	0.0096	17.69	10.91	0.27	28.87	3.33E-04	1.12E+13	7.77E+19
129.21	0.0092	16.72	11.10	0.30	28.13	3.27E-04	1.10E+13	7.64E+19
130.65	0.0060	18.27	10.65	0.20	29.11	2.06E-04	6.91E+12	4.82E+19
132.09	0.0072	15.86	11.16	0.33	27.35	2.63E-04	8.83E+12	6.15E+19
133.52	0.0056	16.16	10.98	0.33	27.47	2.04E-04	6.84E+12	4.76E+19
134.96	0.0032	16.23	10.98	0.28	27.50	1.16E-04	3.90E+12	2.72E+19
136.39	0.0038	16.44	10.68	0.27	27.39	1.39E-04	4.65E+12	3.24E+19
137.83	0.0026	15.33	11.14	0.33	26.80	9.70E-05	3.25E+12	2.27E+19
139.26	0.0022	16.62	10.71	0.25	27.59	7.97E-05	2.68E+12	1.86E+19
140.70	0.0026	15.62	10.83	0.30	26.75	9.72E-05	3.26E+12	2.27E+19
142.14	0.0020	15.61	10.49	0.28	26.37	7.58E-05	2.54E+12	1.77E+19
143.57	0.0024	15.73	10.45	0.25	26.43	9.08E-05	3.05E+12	2.12E+19

145.01	0.0012	15.78	10.76	0.31	26.85	4.47E-05	1.50E+12	1.04E+19
146.44	0.0022	16.06	10.54	0.28	26.89	8.18E-05	2.75E+12	1.91E+19
147.88	0.0012	15.38	10.57	0.32	26.27	4.57E-05	1.53E+12	1.07E+19
149.31	0.0004	15.77	10.07	0.22	26.06	1.53E-05	5.15E+11	3.59E+18
150.75	0.0010	16.02	10.15	0.23	26.40	3.79E-05	1.27E+12	8.85E+18
152.19	0.0014	14.94	10.49	0.32	25.75	5.44E-05	1.82E+12	1.27E+19
153.62	0.0012	14.70	10.37	0.30	25.37	4.73E-05	1.59E+12	1.11E+19
155.06	0.0006	15.07	10.48	0.32	25.87	2.32E-05	7.78E+11	5.42E+18
156.49	0.0002	15.52	10.10	0.26	25.87	7.73E-06	2.59E+11	1.81E+18
157.93	0.0008	14.28	10.55	0.38	25.21	3.17E-05	1.06E+12	7.41E+18
159.36	0.0006	14.81	10.28	0.30	25.38	2.36E-05	7.93E+11	5.52E+18
160.80	0.0008	15.57	9.76	0.27	25.60	3.13E-05	1.05E+12	7.30E+18
162.24	0.0008	14.77	10.09	0.31	25.17	3.18E-05	1.07E+12	7.43E+18
163.67	0.0004	15.02	9.80	0.25	25.07	1.60E-05	5.35E+11	3.73E+18
165.11	0.0004	14.37	10.27	0.32	24.96	1.60E-05	5.38E+11	3.74E+18
166.54	0.0010	14.84	10.32	0.32	25.48	3.92E-05	1.32E+12	9.17E+18
167.98	0.0008	14.72	10.21	0.32	25.25	3.17E-05	1.06E+12	7.40E+18
169.41	0.0006	14.24	9.94	0.30	24.48	2.45E-05	8.22E+11	5.73E+18
170.85	0.0010	15.20	9.76	0.25	25.21	3.97E-05	1.33E+12	9.27E+18
172.29	0.0010	14.01	9.92	0.28	24.21	4.13E-05	1.39E+12	9.65E+18
173.72	0.0000	15.06	9.88	0.25	25.19	0.00E+00	0.00E+00	0.00E+00
175.16	0.0008	15.11	9.57	0.25	24.93	3.21E-05	1.08E+12	7.50E+18
176.59	0.0006	14.61	9.92	0.28	24.81	2.42E-05	8.11E+11	5.65E+18
178.03	0.0004	14.29	9.99	0.30	24.59	1.63E-05	5.46E+11	3.80E+18
179.46	0.0004	14.21	10.08	0.30	24.58	1.63E-05	5.46E+11	3.80E+18
180.90	0.0000	14.70	9.70	0.26	24.66	0.00E+00	0.00E+00	0.00E+00
182.34	0.0004	14.24	9.86	0.34	24.43	1.64E-05	5.49E+11	3.83E+18
183.77	0.0004	14.75	9.74	0.29	24.78	1.61E-05	5.42E+11	3.77E+18
185.21	0.0004	15.06	9.80	0.24	25.10	1.59E-05	5.35E+11	3.72E+18
186.64	0.0012	15.21	9.85	0.26	25.31	4.74E-05	1.59E+12	1.11E+19
188.08	0.0008	14.62	9.96	0.26	24.84	3.22E-05	1.08E+12	7.53E+18
189.51	0.0006	13.90	10.11	0.33	24.35	2.46E-05	8.27E+11	5.76E+18
190.95	0.0012	14.65	10.29	0.27	25.21	4.76E-05	1.60E+12	1.11E+19
192.39	0.0006	14.04	10.33	0.29	24.66	2.43E-05	8.16E+11	5.69E+18
193.82	0.0010	14.22	9.79	0.26	24.28	4.12E-05	1.38E+12	9.62E+18
195.26	0.0004	13.97	10.07	0.29	24.34	1.64E-05	5.51E+11	3.84E+18
196.69	0.0004	14.85	10.04	0.23	25.13	1.59E-05	5.34E+11	3.72E+18
198.13	0.0000	14.18	9.83	0.26	24.27	0.00E+00	0.00E+00	0.00E+00
199.56	0.0008	13.79	9.96	0.28	24.04	3.33E-05	1.12E+12	7.78E+18
201.00	0.0004	14.36	9.62	0.25	24.24	1.65E-05	5.54E+11	3.86E+18